

## SECTION 01420 - REFERENCES

### PART 1 - GENERAL

#### 1.1 DEFINITIONS

- A. General Explanation: Specification language often includes terms that are defined elsewhere in the Contract Documents, including the Construction Contract Clauses. Certain terms are defined in this section. These definitions or explanations are not necessarily complete or exclusive, but are general for the Work and may be explained more explicitly in other Sections.
- B. "General Conditions" refer collectively to the Construction Contract Clauses, Labor Standards and the U.S. Department of Labor Wage Decision and Special Contract Requirements bound into the specifications.
- C. "Indicated" refers to graphic representations, notes or schedules on the Drawings, or to requirements elsewhere in the Specifications or other Contract Documents. Terms such as "shown", "noted", "scheduled" and "specified" have the same meaning as "indicated" and are used to further help locate the reference, but no limitation on location is intended except as specifically stated.
- D. Where "directed", "authorized", "selected", "approved", or a similar term is used in conjunction with the Contractor's submittals, applications, requests and other activities, and the specifications state that an individual other than the Contracting Officer, such as the Project Officer, Architect or Construction Engineer, shall provide this action, it is understood that only the Contracting Officer has this authority unless the individual stated is so authorized in writing by the Contracting Officer.
  - 1. When the individual is so authorized by the Contracting Officer, the Contractor may still appeal the action to the Contracting Officer.
  - 2. The Contracting Officer's decision will be final.
  - 3. In no case shall the Contracting Officer's action be interpreted as releasing the Contractor from responsibility to fulfill the requirements of the Contract Documents.
- E. "Regulations" include laws, ordinances, statutes and lawful orders issued by authorities having jurisdiction, as well as rules, conventions and agreements within the construction industry that control performance of the Work.

- F. "Project site" refers to the space available to the Contractor for performance of the Work, either exclusively or in conjunction with others performing other work.
- G. "Furnish" means to supply and deliver to the Project site, ready for unloading, unpacking, assembling, installation and similar operations.
- H. "Government Furnished" means the Government will supply the items so referenced, with the Contractor having the responsibility of pick-up, storage, delivery to the work site and final installation.
- I. "Install" describes operations at the Project site, including unloading, temporary storage, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning and similar operations.
- J. "Provide" means to furnish and install, complete in place and ready for full use.
- K. The requirement for packaging, packing, marking, and preparation for shipment or delivery included in the referenced specifications will apply only to those materials and equipment that are furnished directly to the Government and not to materials and equipment that are furnished and installed by the Contractor.
- L. "Cutting" refers to removal of material by cutting, sawing, drilling, breaking, chipping, grinding, excavating and similar operations.
- M. "Patching" refers to restoration of a surface to its original completed condition by filling, repairing, refinishing, closing and similar operations.
- N. "Installer" is the Contractor or another entity engaged by the Contractor, either directly or indirectly through subcontracting, to perform a particular construction operation at the Project site, including installation, erection, application and similar operations. Installers shall be skilled in the operations they perform. Where indicated, installers shall also be Specialists as defined in the Construction Contract Clauses.
- O. "Testing agency" or "testing laboratory" is an independent entity engaged to perform specific inspections or tests, either at the Project site or elsewhere, and to report the results of those inspections and tests.
- P. "Owner" refers to the Government.
- Q. "Government" refers to the National Institutes of Health (NIH).
- R. "Project Officer" refers to the NIH Design, Construction and Alteration Branch (DCAB) Contracting Officer's Technical Representative (COTR).

- S. "Building Manager/Facility Manager" is the Government employee responsible for the administration, operation and maintenance of the building.
- T. "Construction Quality Manager" is the individual or entity, under Contract to the Government, responsible for performing the day-to-day coordination and administration of the construction Contract, including performing field inspections, recommending approval or rejection of material and workmanship, monitoring labor and safety provisions, maintaining inspection logs and records of defects, and similar activities.
- U. "Notice to Proceed" is the Contracting Officer's notification in writing to the Contractor to proceed with the individual task orders, activating the time period for construction and establishing the completion date.
- V. "Task Order" is the individual project with a scope of work during the period of the master contract. Where the terms "Delivery Order, Work Request or Record of Call" are used within Divisions 2 - 16 of the specifications, they shall mean the same as task order.

## 1.2 DRAWING SYMBOLS

- A. Except as otherwise indicated, symbols used on the Drawings are those symbols recognized in the construction industry for the purposes.
  - 1. These include graphic symbols defined by "Architectural Graphic Standards", published by John Wiley & Sons, Inc., latest edition, as well as graphic symbols recommended by ASHRAE, ASME, ASPE, CSI, IEEE and similar technical organizations for the mechanical and electrical Drawings.
  - 2. Refer uncertainties as to meaning of symbols to the Contracting Officer for clarification before proceeding.

## 1.3 INDUSTRY STANDARDS

- A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect, to the extent referenced, as if bound or copied directly into the Contract Documents. Such standards are made a part of the Contract Documents by reference.
- B. Conflicting Requirements. Where compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantity or quality, comply with the most stringent requirement. Immediately refer uncertainties, and

requirements that are different but apparently equal, to the Project Officer in writing for a decision before proceeding.

- C. Minimum Quantity and Quality: The quantity or quality indicated shall be the minimum provided. The actual installation may comply exactly with the minimum quantity or quality indicated, or it may exceed the minimum levels within reasonable limits.
1. Indicated numeric values are minimum or maximum as appropriate for the context of the requirements.
  2. Refer uncertainties to the Contracting Officer for a decision before proceeding.
- D. Abbreviations: Names and titles of standards are frequently abbreviated. Abbreviations and acronyms used in the Specifications and other Contract Documents mean the recognized name of a trade association, standards-producing organization, authority having jurisdiction or other entity applicable to the context of the particular provision. Except as otherwise indicated, refer to the current editions of the following publications for abbreviations:
1. "Encyclopedia of Associations: National Organizations of the U.S.", published by Gale Research.
  2. "National Trade and Professional Associations of the United States", published by Columbia Books.
  3. "Means Illustrated Construction Dictionary - New Unabridged Edition" published by R.S. Means Company, Inc.
- E. Abbreviations: Names and titles of standards are frequently abbreviated. Abbreviations and acronyms used in the Specifications and other Contract Documents mean the associated names. The following names are subject to change and are believed, but are not assured, to be accurate and up-to-date as of the date of the Contract Documents.
1. AA - Aluminum Association
  2. AABC - Associated Air Balance Council
  3. AAMA - American Architectural Manufacturers Association
  4. AAN - American Association of Nurserymen (See ANLA)
  5. AASHTO - American Association of State Highway and Transportation
  6. AATCC - American Association of Textile Chemists and Colorists
  7. ABMA - American Bearing Manufacturers Association
  8. ABMA - American Boiler Manufacturers Association
  9. ACI - American Concrete Institute
  10. ACIL - American Council of Independent Laboratories -
  11. The Association of Independent Scientific, Engineering, and Testing Firms
  12. ACPA - American Concrete Pipe Association
  13. ADC - Air Diffusion Council

14. AEIC - Association of Edison Illuminating Companies
15. AFBMA - Anti-Friction Bearing Manufacturers Association (See ABMA)
16. AFPA - American Forest and Paper Association
17. AGA - American Gas Association
18. AHA - American Hardboard Association
19. AHAM - Association of Home Appliance Manufacturers
20. AI - Asphalt Institute
21. AIA - The American Institute of Architects
22. AIA - American Insurance Association
23. AIHA - American Industrial Hygiene Association
24. AISC - American Institute of Steel Construction
25. AISI - American Iron and Steel Institute
26. AITC - American Institute of Timber Construction
27. ALA - American Laminators Association (See LMA)
28. ALCA - Associated Landscape Contractors of America
29. ALI - Associated Laboratories, Inc.
30. ALSC - American Lumber Standards Committee
31. AMCA - Air Movement and Control Association International, Inc.
32. ANLA - American Nursery and Landscape Association
33. ANSI - American National Standards Institute
34. AOAC - Association of Official Analytical Chemists International
35. AOSA - Association of Official Seed Analysts
36. APA - American Plywood Association (see EWA)
37. APA - Architectural Precast Association
38. API - American Petroleum Institute
39. ARI - Air-Conditioning and Refrigeration Institute
40. ARMA - Asphalt Roofing Manufacturers Association
41. ASA - Acoustical Society of America
42. ASC - Adhesive and Sealant Council
43. ASCA - Architectural Spray Coaters Association
44. ASCE - American Society of Civil Engineers
45. ASHES - American Society for Healthcare Environmental Services - Division of the American Hospital Association
46. ASHRAE - American Society of Heating, Refrigerating and Air Conditioning Engineers.
47. ASLA - American Society of Landscape Architects
48. ASME - American Society of Mechanical Engineers
49. ASPA - American Sod Producers Association (See TPI)
50. ASPE - American Society of Plumbing Engineers
51. ASQ - American Society for Quality
52. ASSE - American Society of Sanitary Engineering
53. ASTM - American Society for Testing and Materials
54. ATIS - Alliance for Telecommunications Industry Solutions

## REFERENCES

(New 11/1/00)

55. AWCI - Association of the Wall and Ceiling Industries International
56. AWCMA - American Window Covering Manufacturers Association (See WCMA)
57. AWI - Architectural Woodwork Institute
58. AWWA - American Wood-Preservers' Association
59. AWS - American Welding Society
60. AWWA - American Water Works Association
61. BAC - Brick Association of the Carolinas
62. BHMA - Builders Hardware Manufacturers Association
63. BIA - Brick Industry Association
64. BIFMA - The Business and Institutional Furniture Manufacturer's Association International
65. CABO - Council of American Building Officials
66. CAGI - Compressed Air and Gas Institute
67. CAUS - Color Association of the United States
68. CBHF - State of California, Department of Consumer Affairs, Bureau of Home Furnishings and Thermal Insulation Technical Information
69. CBMA - Certified Ballast Manufacturers Association
70. CCC - Carpet Cushion Council
71. CDA - Copper Development Association Inc.
72. CE - Corps of Engineers (U.S. Department of the Army)
73. CFFA - Chemical Fabrics & Film Association, Inc.
74. CFR - Code of Federal Regulations (Publications available from the Government Printing Office)
75. CGA - Compressed Gas Association
76. CGSB - Canadian General Standards Board
77. CISCA - Ceilings and Interior Systems Construction Association
78. CISPI - Cast Iron Soil Pipe Institute
79. CLFMI - Chain Link Fence Manufacturers Institute
80. CPA - Composite Panel Association
81. CPPA - Corrugated Polyethylene Pipe Association
82. CPSC - Consumer Product Safety Commission
83. CRI - Carpet and Rug Institute
84. CRSI - Concrete Reinforcing Steel Institute
85. CS - Commercial Standard (U.S. Department of Commerce)
86. CSI - Construction Specifications Institute
87. CSSB - Cedar Shake and Shingle Bureau
88. CTI - Ceramic Tile Institute of America
89. CTI - Cooling Tower Institute
90. DASMA - Door and Access Systems Manufacturers Association, International
91. DHI - Door and Hardware Institute
92. DIPRA - Ductile Iron Pipe Research Association
93. DOC - Department of Commerce (Publications available from the Government Printing Office)

## REFERENCES

(New 11/1/00)

94. DOT - Department of Transportation
95. ECSA - Exchange Carriers Standards Association (See ATIS)
96. EIA - Electronic Industries Association
97. EIMA - EIFS Industry Members Association
98. EJMA - Expansion Joint Manufacturers Association
99. EPA - Environmental Protection Agency
100. ETL - ETL Testing Laboratories Inc. (see ITS)
101. EWA - Engineered Wood Association
102. FAA - Federal Aviation Administration
103. FCC - Federal Communications Commission
104. FCI - Fluid Controls Institute
105. FCICA - Floor Covering Installation Contractors Association
106. FDA - Federal Drug Administration
107. FGMA - Flat Glass Marketing Association (See GANA)
108. FHA - Federal Housing Administration (U.S. Department of Housing and Urban Development)
109. FM - Factory Mutual System
110. FS - Federal Specification (Publications available from GSA)
111. GA - Gypsum Association
112. GANA - Glass Association of North America
113. GRI - Geosynthetic Research Institute
114. GSA - General Services Administration
115. HEI - Heat Exchange Institute
116. HFES - Human Factors and Ergonomics Society
117. HI - Hydraulic Institute
118. HI - Hydronics Institute - Division of Gas Appliance Manufacturers Association
119. HMA - Hardwood Manufacturers Association
120. HPVA - Hardwood Plywood and Veneer Association
121. IAS - International Approval Services - Division of Canadian Standards Association
122. IBD - Institute of Business Designers (See IIDA)
123. ICEA - Insulated Cable Engineers Association
124. IEC - International Electrotechnical Commission (Publications available from ANSI)
125. IEEE - Institute of Electrical and Electronics Engineers
126. IESNA - Illuminating Engineering Society of North America
127. IGCC - Insulating Glass Certification Council
128. IIDA - International Interior Design Association
129. ILI - Indiana Limestone Institute of America
130. IMSA - International Municipal Signal Association
131. INCE - Institute of Noise Control Engineering
132. IRI - HSB Industrial Risk Insurers
133. ISA - International Society for Measurement and Control
134. ISEA - Industrial Safety Equipment Association
135. ISS - Iron and Steel Society

REFERENCES  
(New 11/1/00)

136. ITS - Intertek Testing Services
137. KCMA - Kitchen Cabinet Manufacturers Association
138. LGSI - Light Gage Structural Institute
139. LIA - Lead Industries Association, Inc.
140. LMA - Laminating Materials Association
141. LPI - Lightning Protection Institute
142. MBMA - Metal Building Manufacturers Association
143. MCAA - Mechanical Contractors Association of America
144. MFMA - Maple Flooring Manufacturers Association
145. MFMA - Metal Framing Manufacturers Association
146. MHIA - Material Handling Industry Association
147. MIA - Marble Institute of America
148. MIA - Masonry Institute of America
149. MIL - Military Standardization Documents (U.S. Department of Defense)
150. ML/SFA - Metal Lath/Steel Framing Association
151. MRCA - Midwest Roofing Contractors Association
152. MSS - Manufacturers Standardization Society of the Valve and Fittings Industry
153. NAA - National Arborist Association
154. NAAMM - National Association of Architectural Metal Manufacturers
155. NAAMM - North American Association of Mirror Manufacturers (See GANA)
156. NACE - National Association of Corrosion Engineers International
157. NAGDM - National Association of Garage Door Manufacturers (See DASMA)
158. NAIMA - North American Insulation Manufacturers Association
159. NAMI - National Accreditation & Management Institute, Inc.
160. NAPA - National Asphalt Pavement Association
161. NBHA - National Builders Hardware Association (See DHI)
162. NBGQA - National Building Granite Quarries Association, Inc.
163. NCAC - National Council of Acoustical Consultants
164. NCCA - National Coil Coaters Association
165. NCMA - National Concrete Masonry Association
166. NCPI - National Clay Pipe Institute
167. NCRPM - National Council on Radiation Protection and Measurements
168. NCSPA - National Corrugated Steel Pipe Association
169. NEBB - Natural Environmental Balancing Bureau
170. NECA - National Electrical Contractors Association
171. NEI - National Elevator Industry
172. NELMA - Northeastern Lumber Manufacturers Association
173. NEMA - National Electrical Manufacturers Association
174. NETA - InterNational Electrical Testing Association
175. NFPA - National Fire Protection Association
176. NFPA - National Forest Products Association (See AFPA)
177. NFRC - National Fenestration Rating Council Incorporated
178. NGA - National Glass Association

## REFERENCES

(New 11/1/00)



179. NHLA - National Hardwood Lumber Association
180. NIA - National Insulation Association
181. NIAC - National Insulation and Abatement Contractors Association (See NIA)
182. NIST - National Institute of Standards and Technology (U.S. Department of Commerce)
183. NKCA - National Kitchen Cabinet Association (See KCMA)
184. NLGA - National Lumber Grades Authority
185. NOFMA - National Oak Flooring Manufacturers Association
186. NPA - National Parking Association
187. NPCA - National Paint and Coatings Association
188. NRCA - National Roofing Contractors Association
189. NRMCA - National Ready Mixed Concrete Association
190. NSA - National Stone Association
191. NSF - National Sanitation Foundation International
192. NSSEA - National School Supply and Equipment Association
193. NTMA - National Terrazzo and Mosaic Association
194. NUSIG - National Uniform Seismic Installation Guidelines
195. NWMA - National Woodwork Manufacturers Association (See NWWDA)
196. NWWDA - National Wood Window and Door Association
197. OSHA - Occupational Safety and Health Administration (U.S. Department of Labor)
198. PATMI - Powder Actuated Tool Manufacturers' Institute
199. PCA - Portland Cement Association
200. PCI - Precast/Prestressed Concrete Institute
201. PDCA - Painting and Decorating Contractors of America
202. PDI - Plumbing and Drainage Institute
203. PEI - Porcelain Enamel Institute
204. PGI - Polyvinylchloride Geomembrane Institute - Technology Program, University of Illinois-Urbana Champaign
205. PIMA - Photographic and Imaging Manufacturers Association
206. PPFA - Plastic Pipe and Fittings Association
207. PPI - Plastics Pipe Institute (The Society of the Plastics Industry, Inc.)
208. PS - Product Standards of the National Bureau of Standards (U.S. Department of Commerce)
209. RCMA - Roof Coatings Manufacturers Association Center Park
210. RCSC - Research Council on Structural Connections
211. Sargent & Lundy
212. RFCI - Resilient Floor Covering Institute
213. RMA - Rubber Manufacturers Association
214. RUS - Rural Utilities Service
215. SAE - Society of Automotive Engineers International
216. SDI - Steel Deck Institute
217. SDI - Steel Door Institute
218. SEFA - Scientific Equipment and Furniture Association

REFERENCES  
(New 11/1/00)

- 219. SEGD - Society for Environmental Graphic Design
- 220. SGCC - Safety Glazing Certification Council
- 221. SHLMA - Southern Hardwood Lumber Manufacturers Association (See HMA)
- 222. SIGMA - Sealed Insulating Glass Manufacturers Association
- 223. SJI - Steel Joist Institute
- 224. SMA - Screen Manufacturers Association
- 225. SMACNA - Sheet Metal and Air Conditioning Contractors' National Association
- 226. SPI - The Society of the Plastics Industry, Inc.
- 227. SPIB - Southern Pine Inspection Bureau
- 228. SPRI - Single Ply Roofing Institute
- 229. SSINA - Specialty Steel Industry of North America
- 230. SSPC - Steel Structures Painting Council - The Society for Protective Coatings
- 231. SSPMA - Sump and Sewage Pump Manufacturers Association
- 232. STI - Steel Tank Institute
- 233. SWI - Steel Window Institute
- 234. SWPA - Submersible Wastewater Pump Association
- 235. SWRI - Sealant, Waterproofing and Restoration Institute
- 236. TCA - Tile Council of America
- 237. TFS - Texas Forest Service
- 238. TIMA - Thermal Insulation Manufacturers Association (See NAIMA)
- 239. TPI - Truss Plate Institute
- 240. TPI - Turfgrass Producers International
- 241. TRB - Transportation Research Board - National Research Council
- 242. UFAC - Upholstered Furniture Action Council
- 243. UL - Underwriters Laboratories Inc.
- 244. UNI - Uni-Bell PVC Pipe Association
- 245. USDA - U.S. Department of Agriculture
- 246. USITT - U.S. Institute of Theater Technology - The American Association of Design and Production Professionals in the Performing Arts
- 247. USP - U.S. Pharmacopeia
- 248. USPS - U.S. Postal Service
- 249. WA - Wallcoverings Association
- 250. WASTEC - Waste Equipment Technology Association
- 251. WCLIB - West Coast Lumber Inspection Bureau
- 252. WCMA - Window Covering Manufacturers Association
- 253. WEF - Water Environment Federation
- 254. WIC - Woodwork Institute of California
- 255. WMMPA - Wood Moulding & Millwork Producers Association
- 256. WPCF - Water Pollution Control Federation (See WEF)
- 257. WRI - Wire Reinforcement Institute
- 258. WSC - Water Systems Council
- 259. WSFI - Wood and Synthetic Flooring Institute (See MFMA)
- 260. WWPA - Western Wood Products Association

REFERENCES  
(New 11/1/00)

PART 2 - PRODUCTS (Not applicable)

PART 3 - EXECUTION (Not applicable)

END OF SECTION 01420

REFERENCES  
(New 11/1/00)